BLUE ROCK ENVIRONMENTAL, INC.

FILE COPY

May 6, 2005

Ms. Kasey Ashley NCRWQCB 5550 Skylane Boulevard, Suite A Santa Rosa, California 95403

Re: Second Quarter 2005 Groundwater Monitoring Report

Former Beaver Lumber Company 1220 Fifth Street, Arcata, CA NCRWQCBCase No. 1NHU001 Blue Rock Project No. NC-1

Dear Ms. Ashley,

This report presents the results of the second quarter 2005 groundwater monitoring activities at 1220 Fifth Street, Arcata, Humboldt County, California (site) (Figure 1), and was prepared for Mr. Bradford C. Floyd by Blue Rock Environmental, Inc. (Blue Rock).

Background

Site Description

The site is located at the western end of Fifth Street, between State Highway 255 and the railroad tracks, in the town of Arcata, California (Figure 1). The site consists of a metal framed building surrounded by asphalt pavement and gravel surfacing (Figure 2). The site is surrounded by industrial, commercial, agricultural, and residential properties. Prior to the construction of the waste transfer station and truck scale, the site was paved with asphalt and used as a log deck for the former adjacent saw mill.

Site History

In September 1998, approximately 1,200 cubic yards of sand and gravel fill material and 3,500 cubic yards of silty clay soil were excavated from the site to facilitate the construction of a waste transfer station. Kernen Construction Company (Kernen) removed site soils from ground surface to 4 feet below ground surface (bgs) in the two excavation locations shown in Figure 2. Engineered fill was then placed in these locations to meet building code requirements. The excavated soil was stockpiled on asphalt near the excavation. The soils where scheduled to be hauled to Cummings Road Landfill in Eureka, California to be used as cover soil.

On September 9, 1998, trucks containing site soils were turned away from the Cummings Road Landfill because the site supervisor observed that the soil appeared dark and had an oily smell. The soil was then hauled to Kernen's construction facility in Glendale, California for temporary storage.

Second Quarter 2005 Former Beaver Lumber Company May 6, 2005 Page 2 of 7

In a September 16, 1998 letter, the City Garbage Company of Eureka informed the Humboldt County Division of Environmental Health (HCDEH) that soils from the site were refused and appeared to have an oily smell.

On September 22, 1998, Kernen collected four soil samples from the soil stockpile. These samples (1, 2, 3, and 4) were analyzed for total petroleum hydrocarbons as diesel (TPHd) and sample 3 was also analyzed for hydrocarbon oil and grease (O&G). Low levels of TPHd and O&G were detected in these samples. These laboratory results were forwarded to the HCDEH.

On October 6, 1998, the Humboldt Solid Waste Management Authority (HCWMA), which was leasing the site, and the HCDEH had a meeting to discuss the disposition of the soil stockpiled at Kernen's facility.

In a letter dated October 9, 1998, the HCDEH informed the HCWMA of options for handling the soils.

On October 13, 1998, Winzler and Kelly collected six soil samples (5, 6, 7, 8, 9, and 10) from the stockpiled soil for disposal profiling.

In December 1998, the NCRWQCB authorized the HCWMA to bioremediate site soils on an asphalt paved portion of the Humboldt County Road Department lease property located on the eastern edge of the Arcata Airport.

In a letter dated July 5, 2000, the NCRWQCB sent a reminder request to the HCWMA for the necessary submittal a report of waste discharge and final disposal plan.

In a letter dated December 29, 2000, the NCRWQCB requested the property owner to prepare a workplan to determine the extent soil contamination and if groundwater has been impacted in reference to the locations of excavated soils.

On March 19, 2003, Clearwater Group (Clearwater) reviewed aerial photos of the site from 1996 and interviewed the site contractor that performed the soil excavation activities. Clearwater interpreted aerial photos from 1996 to indicate that the site was previously used as a log deck and storage of heavy equipment and machinery. The site contractor indicated that the site prior to construction contained scattered wood waste on top of asphalt surfacing and below the asphalt consisted of sand and gravel fill from below asphalt to approximately 1 foot bgs and gray silty clay from 1 foot bgs to total excavated depth of 4 feet bgs. Soil was excavated 5 feet beyond the footprint of the buildings shown in Figure 2.

Clearwater submitted a *Preliminary Site Investigation Workplan*, dated March 31, 2003, to the NCRWQCB. The workplan proposed to evaluate the extent of petroleum hydrocarbon contamination in subsurface soil and groundwater peripheral to the two "September 1998" soil excavation areas (Figure 2). The workplan proposed to complete the investigation through the

installation of five shallow soil borings with the collection of grab groundwater samples. This workplan was approved by the NCRWQCB in a letter dated May 13, 2003.

On June 12, 2003, Clearwater supervised the advancement of five soil borings associated with the subject property: SB-1 through SB-5 (Figure 2). These soil borings were placed in locations to assess the sorbed-phase hydrocarbon contamination associated with the site. Grab groundwater samples were collected from each boring to evaluate dissolved-phase hydrocarbon contamination associated with the site. These borings were advanced to 15 feet bgs. Based on soil stockpile analytical results and area of excavation, Clearwater calculated that approximately 395 gallons of motor oil was removed from the site in 1998. Results of this investigation are presented in Clearwater's *Preliminary Site Investigation Report*, dated August 11, 2003. The NCRWQCB commented on this *Report* in a site correspondence letter dated August 28, 2003, requesting preparation of a Workplan to define the extent of contamination and requesting lower detection limits for TPHmo. Clearwater had the laboratory revise the laboratory report to reflect the requested detection limit for TPHmo in groundwater samples collected on June 12, 2003.

Clearwater submitted a *Workplan for Additional Investigation*, dated September 29, 2003, to the NCRWQCB. The *Workplan* proposed the installation of four groundwater monitoring wells proximal to soil boring SB-2 to evaluate hydrocarbon distribution and establish a groundwater gradient and flow direction. This *Workplan* was approved with comments by the NCRWQCB in a letter dated October 31, 2003.

On January 10, 2005, Blue Rock supervised the installation of four monitoring wells associated with the subject site: MW-1 to MW-4 (Figure 2). These monitoring wells were placed in locations to assess the hydrocarbon contamination and establish a groundwater gradient associated with the site. These borings were advanced to 15 feet bgs.

Groundwater Monitoring Field and Laboratory Activities

Groundwater Monitoring Activities

On February 7, March 10, and April 19, 2005, all four wells (MW-1 through MW-4) were gauged and samples were collected on April 19, 2005.

Prior to sampling, an electronic water level indicator was used to gauge depth to water in each well, accurate to within ± 0.01 -foot. All wells were checked for the presence of light non-aqueous phase liquid (LNAPL) petroleum prior to purging. No measurable thicknesses of LNAPL were observed on groundwater in any of the wells.

In preparation for sampling, the wells were purged of groundwater until sampling parameters (temperature, pH, and conductivity) stabilized.

Following recovery of water levels to at least 80% of their static levels in the other wells, groundwater samples were collected from the wells using disposable polyethylene bailers and

Second Quarter 2005 Former Beaver Lumber Company May 6, 2005 Page 4 of 7

transferred to laboratory supplied containers. Sample containers were labeled, documented on a chain-of-custody form, and placed on ice in a cooler for transport to the project laboratory.

Purging instruments were cleaned between use by an Alconox[®] wash followed by double rinse in clean tap water to prevent cross-contamination. Purge and rinseate water was stored on-site in labeled 55-gallon drums pending future removal and disposal.

Groundwater monitoring and well purging information is presented on Gauge Data/Purge Calculations and Purge Data sheets (attached).

Groundwater Sample Analyses

Groundwater samples were analyzed by Kiff Analytical (Kiff), a DHS-certified laboratory, located in Davis, California, for the following analytes:

- TPHmo by EPA Method 8015M with silica gel cleanup.
- TPHd by EPA Method 8015M with silica gel cleanup.
- BTEX by EPA Method 8260B.

Groundwater Monitoring Results

Groundwater Flow Direction and Gradients

On February 7, 2005, static groundwater in the wells was present beneath the site at depths ranging from approximately 2.83 (MW-3) to 4.55 (MW-4) feet bgs. Gauging data, combined with well elevation data, were used to calculate groundwater elevation, and to generate a groundwater elevation and gradient map. The groundwater flow direction was calculated to be toward the south at a gradient of 0.002 ft/ft (Figure 3a).

On March 10, 2005, static groundwater in the wells was present beneath the site at depths ranging from approximately 2.75 (MW-3) to 4.57 (MW-4) feet bgs. Gauging data, combined with well elevation data, were used to calculate groundwater elevation, and to generate a groundwater elevation and gradient map. The groundwater flow direction was calculated to be toward the south at a gradient of 0.005 ft/ft (Figure 3b).

On April 19, 2005, Static groundwater in the wells was present beneath the site at depths ranging from approximately 2.37 (MW-3) to 4.39 (MW-4) feet bgs. Gauging data, combined with well elevation data, were used to calculate groundwater elevation, and to generate a groundwater elevation and gradient map. The groundwater flow direction was calculated to be toward the south at a gradient of 0.0098 ft/ft (Figure 3c).

Groundwater Contaminant Analytical Results

LNAPL: None

TPHmo concentration: <100 micrograms per liter (μg/L) (MW-2, MW-3, MW-4) to 390 μg/L

(MW-1)

TPHd concentration: $<50 \mu g/L (MW-2, MW-3, MW-4) \text{ to } 73 \mu g/L (MW-1)$

Benzene concentration: <0.50 µg/L (MW-1, MW-2, MW-3, and MW-4)

Groundwater sample analytical results are shown graphically on Figure 4, and groundwater sample analytical results are summarized in Table 1. Well construction details are summarized in Table 2. Copies of the laboratory report and chain-of-custody form are attached.

Remarks

Groundwater sample analytical results are similar to previous sample results. Concentrations of TPHd are footnoted by the laboratory as non-typical of diesel and have a higher boiling point, suggesting that they are an overlap of TPHmo concentrations detected.

Project Status

• The site is currently being monitored on a monthly and quarterly basis per the NCRWQCB directives. Depth to water measurements will be collected monthly and groundwater gradient maps will be included in the next quarterly monitoring report. The next quarterly sampling event is scheduled for July 2005. Groundwater samples will be analyzed for TPHmo, TPHd, and BTEX.

Certification

This report was prepared under the supervision of a California Professional Geologist at Blue Rock. All statements, conclusions, and recommendations are based upon published results from past consultants, field observations by Blue Rock, and analyses performed by a state-certified laboratory as they relate to the time, location, and depth of points sampled by Blue Rock. Interpretation of data, including spatial distribution and temporal trends, are based on commonly used geologic and scientific principles. It is possible that interpretations, conclusions, and recommendations presented in this report may change, as additional data become available and/or regulations change.

Information and interpretation presented herein are for the sole use of the client and regulating agency. The information and interpretation contained in this document should not be relied upon by a third party.

The service performed by Blue Rock has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

If you have any questions regarding this project, please contact us at (707) 441-1934.

Sincerely,

Blue Rock Environmental, Inc.

Prepared by:

Scott Ferriman Project Scientist

Swlt ~

Reviewed by:

Brian Gwinn, PG Principal Geologist

Second Quarter 2005 Former Beaver Lumber Company May 6, 2005 Page 7 of 7

Attachments:

Table 1: Groundwater Elevations and Analytical Results

Table 2: Well Construction Details

Figure 1: Site Location Map

Figure 2: Site Plan

Figure 3a: Groundwater Elevations and Gradient -2/7/05

Figure 3b: Groundwater Elevations and Gradient -3/10/05

Figure 3c: Groundwater Elevations and Gradient – 4/19/05

Figure 4: Dissolved-Phase Hydrocarbon Distribution – 4/19/05

Blue Rock's Gauge/Purge Calculations and Well Purging Data Field Sheets

Laboratory Analytical Reports and Chain-of-Custody Form

Distribution:

Mr. Jim Clark Humboldt County Division of Environmental Health 100 H Street, Suite 100 Eureka, CA 95501

Mr. Bradford C. Floyd 819 Seventh Street Eureka, CA 95501

Table 1 GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS

Former Beaver Lumber Company 1220 Fifth Street Arcata, California Blue Rock Project No. NC-1

Sample	Sampling	TOC	DTW	GWE	TPHmo	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes
ID	Date	(feet)	(feet)	(feet)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
SB-1	6/12/03				<175	< 50	< 0.5	< 0.5	< 0.5	<1
SB-2	6/12/03				4,000	< 200	< 0.5	< 0.5	< 0.5	<1
SB-3	6/12/03				<175	< 50	< 0.5	< 0.5	< 0.5	<1
SB-4	6/12/03				<175	< 50	< 0.5	< 0.5	< 0.5	<1
SB-5	6/12/03				<175	< 50	< 0.5	< 0.5	< 0.5	<1
MW-1	1/17/05	13.22	4.03	9.19	280*	86*	< 0.5	< 0.5	<0.5	<0.5
	2/7/05	13.22	3.96	9.26						
	2/7/05 3/10/05	13.22	4.00	9.22						
	4/19/05	13.22	3.81	9.41	390*	73*	< 0.5	< 0.5	< 0.5	< 0.5
MW-2	1/17/05	12.73	3.54	9.19	210*	60*	<0.5	< 0.5	<0.5	<0.5
	2/7/05	12.73	3.48	9.25						
	2/7/05 3/10/05	12.73	3.52	9.21						
	4/19/05	12.73	3.33	9.40	<100*	<50*	< 0.5	< 0.5	< 0.5	< 0.5
MW-3	1/17/05	12.17	2.77	9.40	<100*	<50*	< 0.5	< 0.5	< 0.5	< 0.5
	2/7/05	12.17	2.83	9.34						
	3/10/05	12.17	2.75	9.42						
	4/19/05	12.17	2.37	9.80	<100*	<50*	< 0.5	< 0.5	< 0.5	< 0.5
MW-4	1/17/05	13.80	4.62	9.18	430*	99*	< 0.5	< 0.5	< 0.5	< 0.5
	2/7/05 3/10/05	13.80	4.55	9.25						
		13.80	4.57	9.23						
	4/19/05	13.80	4.39	9.41	<100*	<50*	< 0.5	< 0.5	< 0.5	< 0.5
				MCL			1	150	300	1,750
		Tast		threshold		100		42	29	17
			Clean	up Goals	175	100	0.5	42	29	17

Notes:

TOC: Top of casing referenced to feet above mean sea level (msl).

DTW: Depth to water as referenced to top of well casing.

GWE: Groundwater elevation as referenced to established benchmark.

TPHmo: Total Petroelum Hydrocarbons as motor oil by EPA Method 3510/8015M (* indicates silica gel cleanup).

TPHd: Total Petroelum Hydrocarbons as diesel by EPA Method 3510/8015M (* indicates silica gel cleanup).

BTEX: Benzene, toluene, ethylbenzene, and xylenes by EPA method 8020 and 8260B.

 μ g/L: micrograms per liter = ppb = parts per billion

"--": Not analyzed, available, or applicable

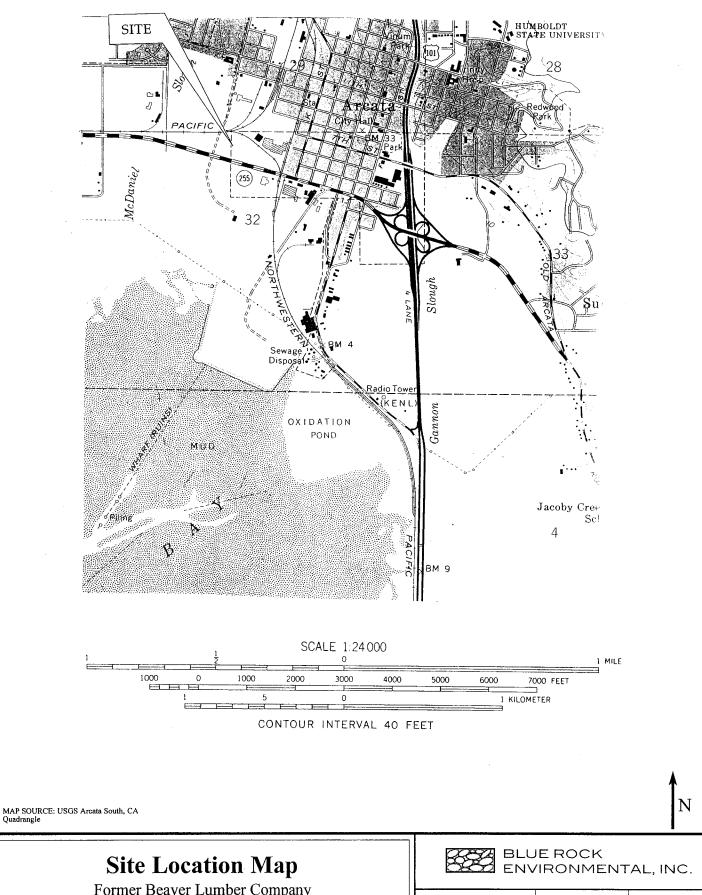
MCL: Maximum contaminant level, a Federal drinking water standard based on health, technology and economics.

Taste & odor threshold: A drinking water standard

Table 2 WELL CONSTRUCTION DETAILS

Former Beaver Lumber Company 1220 Fifth Street Arcata, California Blue Rock Project No. NC-1

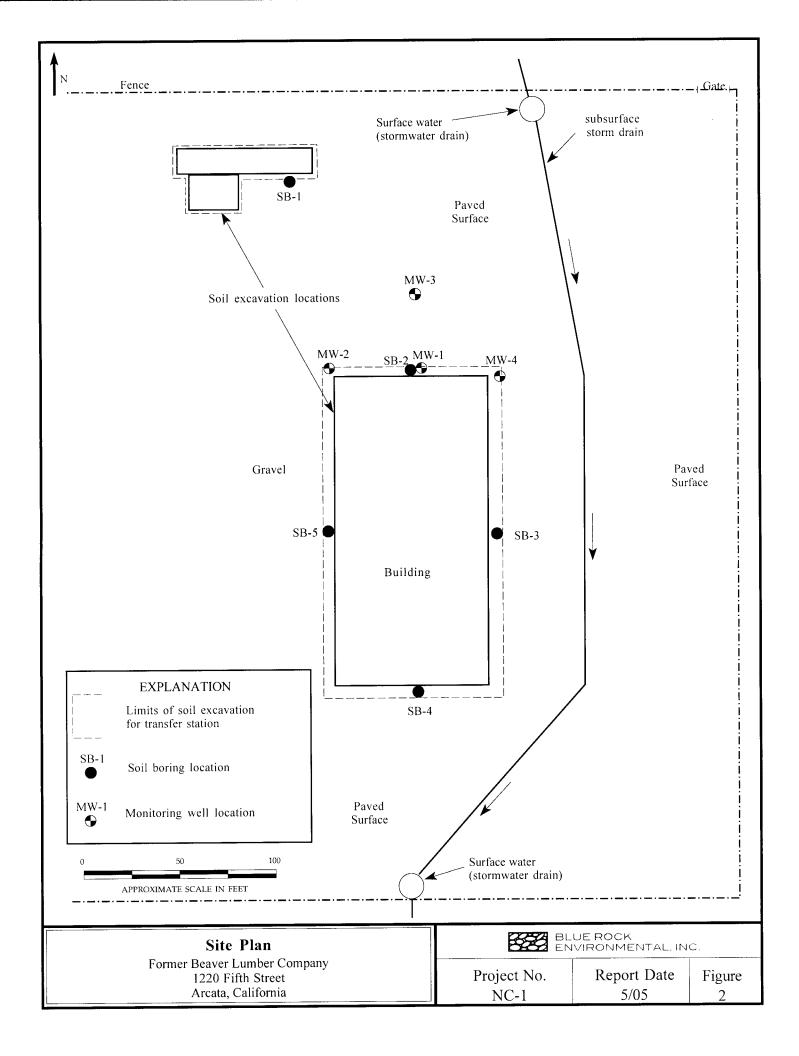
			Casing	Total	Blank	Screened	Slot	Filter	Bentonite	
Well	Date	Intstalled	Diameter	Depth	Interval	Interval	Size	Pack	Seal	Cement
Identification	Intstalled	by	(inches)	(feet)	(feet)	(feet)	(inches)	(feet)	(feet)	(feet)
MW-1	1/10/05	Blue Rock	2	15	0-3	3-15	0.01	2-15	1-2	0-1
MW-2	1/10/05	Blue Rock	2	15	0-3	3-15	0.01	2-15	1-2	0-1
MW-3	1/10/05	Blue Rock	2	15	0-3	3-15	0.01	2-15	1-2	0-1
MW-4	1/10/05	Blue Rock	2	15	0-3	3-15	0.01	2-15	1-2	0-1

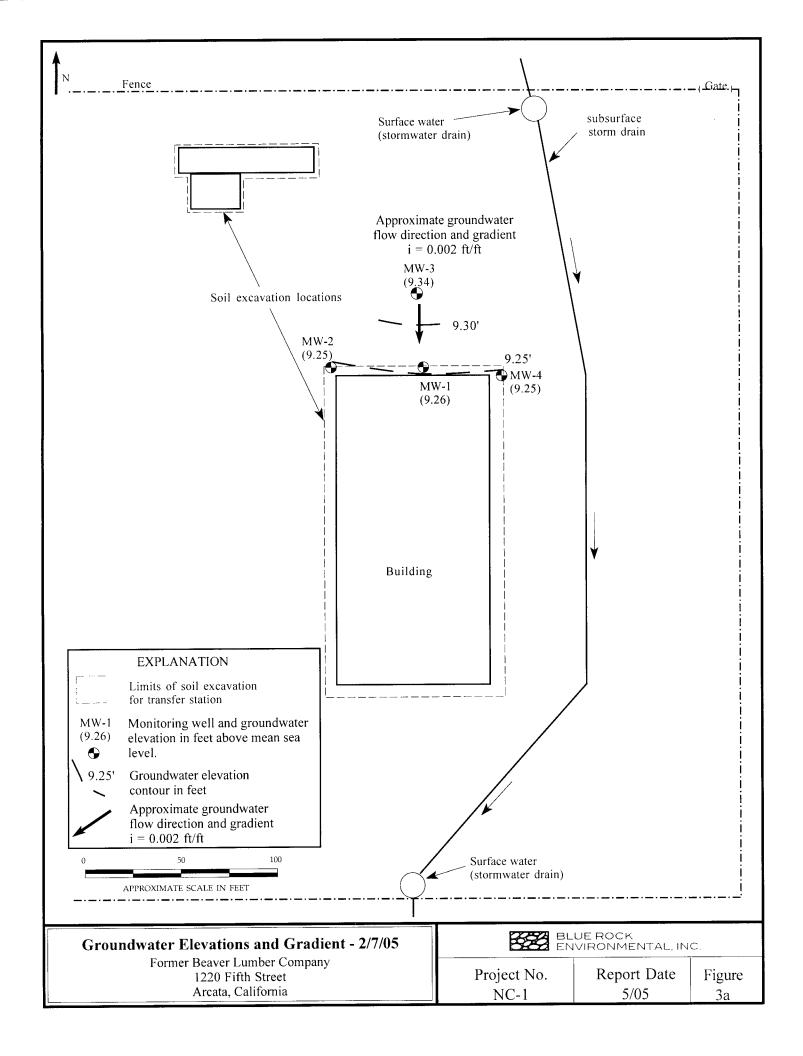


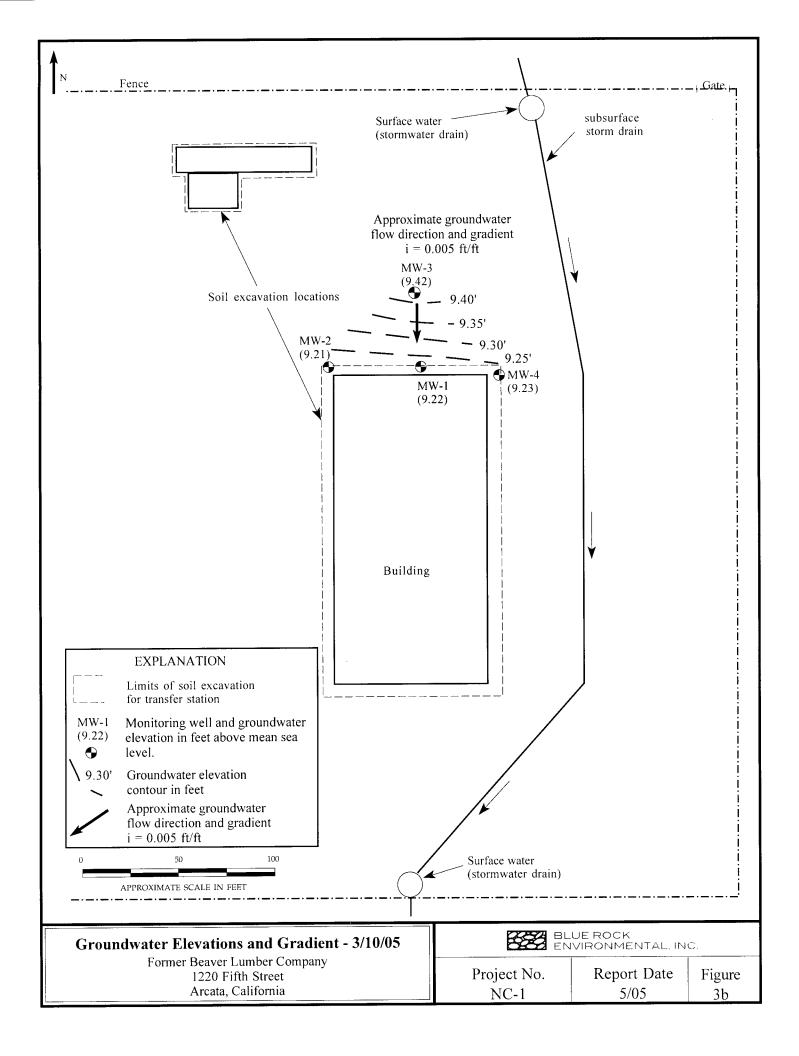
Former Beaver Lumber Company

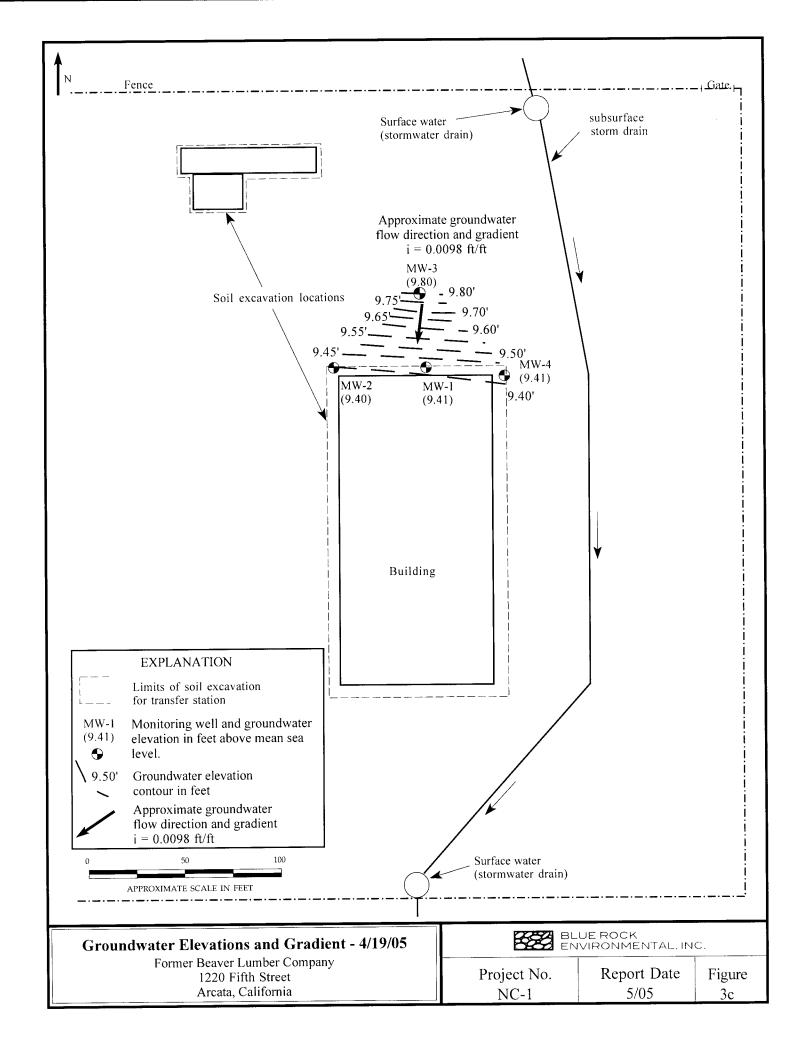
1220 Fifth Street Arcata, California

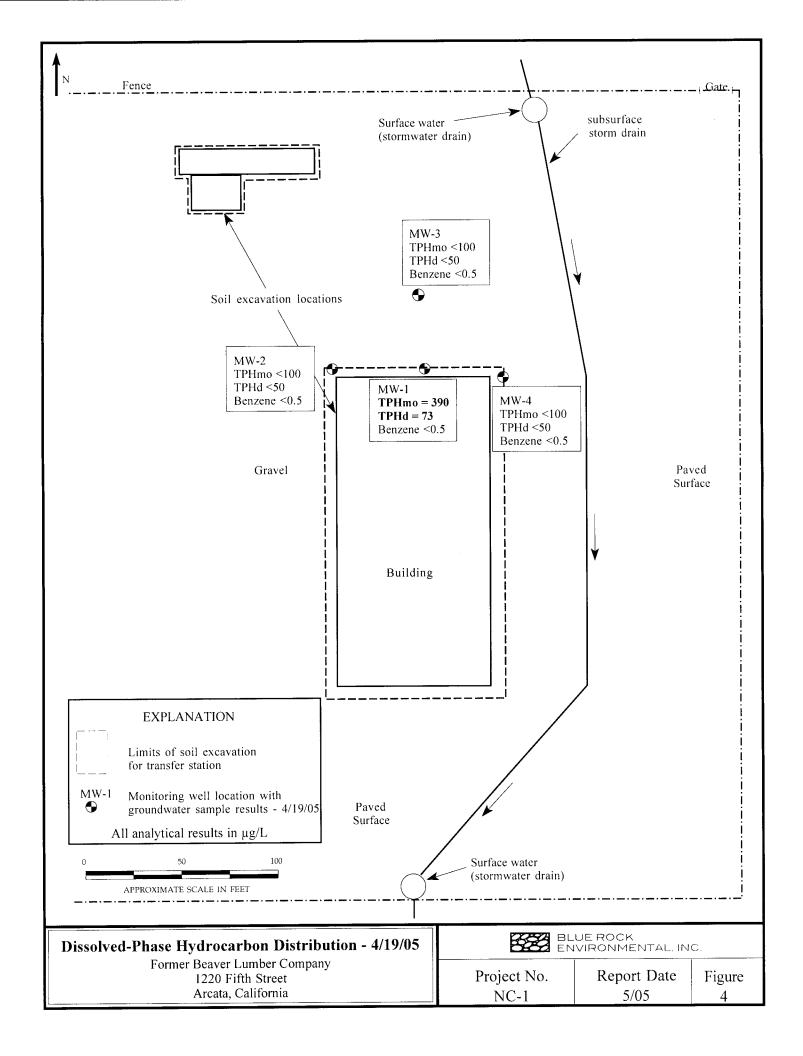
	~	
Project No.	Date	Figure
NC-1	1/05	1











GAUGING DATA/PURGE CALCULATIONS

Job No.:	NC-L	Location:	1220 F	filh st.	Avcata	Date: 2	105	Tech(s): M. Richard
WELL NO.	DIA.	DTB (ft.)	DTW (ft.)	ST (ft.)	CV (gal.)	PV (gal.)	SPH (ft.)	NOTES
muv-1	2"	14.36	3,96				÷	
nw-2		14,46	3.48					
mw-3		14.59	2.83					
MW-4	\ <u>\</u>	14.49	4,59				<u> </u>	
			-					
			٠,		·			
				140 40 40 40 40 40 40 40 40 40 40 40 40 4				

Explanation:

DIA. = Well Diameter

DTB = Depth to Bottom

DTW = Depth to Water

ST = Saturated Thickness (DTB-DTW)

CV = Casing Volume (ST x cf)

PV = Purge Volume (standard 3 x CV,

well development 10 x CV)

SPH = Thickness of Separate Phase Hydrocarbons

Conversion Factors (cf):

2 in. dia. well cf = 0.16 gal./ft.

4 in. dia. well cf = 0.65 gal./ft.

6 in. dia. well cf = 1.44 gal./ft.



GAGING DATA/PURGE CALCULATIONS

Job No.: NC	- \	Location:	1220	FAIL She	+ Arraba	Date: 3	005	Tech(s): SF
WELL ' I	DIA. (in.)	DTB (ft.)	DTW (ft.)	ST (ft.)	CV (gal.)	PV (gal.)	SPH (ft.)	NOTES
	Z		4.00				O, 00	
	1	14.46	3.52				0,00	
Mw-2 Mw-3 Mw-4		14.59	2.75				0.00	
MW.4	$\sqrt{}$	14,49	4.57				0,00	
	<u></u>							

Explanation:

DIA. = Well Diameter

DTB = Depth to Bottom

DTW = Depth to Water

ST = Saturated Thickness (DTB-DTW)

CV = Casing Volume (ST x cf)

PV = Purge Volume (standard 3 x CV, well development 10 x CV)

SPH = Thickness of Separate Phase Hydrocarbons

Conversion Factors (cf):

2 in. dia. well cf = 0.16 gal./ft.

4 in. dia. well cf = 0.65 gal./ft.

6 in. dia. well cf = 1.44 gal./ft.



GAGING DATA/PURGE CALCULATIONS

Job No.:	NC-1	Location:	1220	5 5th St.	Arcala	Date: 4	19-05	Tech(s):	J.L.
WELL NO.	(in.)	DTB (ft.)	DTW (ft.)	ST (ft.)	CV (gal.)	PV (gal.)	SPH (ft.)	NOTES	
MW-1	2"	15,00	3.81	11.19	1.79	5.37	0	na	Sheen
MW-2	1	15,00	3,33	11.67	1.86	5,58		1	sheen
MW-3 MW-4		l .		12.63		6,06		No	sheen
MW-4	1	15,00	4.39	10,61	1.69	5,07	V	No	sheen sheen
	V 10 10 10 10 10 10 10 10 10 10 10 10 10								
				1 - 1 - 1 - 1		-			
-			300 00 30						
							-		
							:		
	- 4				, , , , , ,				

Explanation:

DIA. = Well Diameter

DTB = Depth to Bottom

DTW = Depth to Water

ST = Saturated Thickness (DTB-DTW)

CV = Casing Volume (ST x cf)

PV = Purge Volume (standard 3 x CV, well development 10 x CV)

SPH = Thickness of Separate Phase Hydrocarbons

Conversion Factors (cf):

2 in. dia. well cf = 0.16 gal./ft.

4 in. dia. well cf = 0.65 gal./ft.

6 in. dia. well cf = 1.44 gal./ft.



PURGING DATA

Job No.: //	C-1	Location:	17205	TH St. Ara	Date:	1-19-05 Tech: J.L.
WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pН	
MW-1	1350					Sample for: TPH mo
Calc. purge	1300	=1	937	55.4	6.63	TPHg TPHd 8260
volume	,	~'3	838	54.5	6.71	BTEX MTBE Metals
5,37		~5	813	54.0	6:28	Purging Method: d & Baler
						PVC bailer / Pump
	COMMENT	S: color, turb	oidity, recharg			Sampling Method:
	wer to	gray for	s to mad te	To rech	NO SLEEV	7
WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pН	Sample at:
MW-Z				NA 444 U.S.	24 24 54	Sample for: TPH mo
Calc. purge	1300	21	708	59.6	6.26	TPHg TPHd 8260
volume	1310	23	531	58.8	6.47	(BTEX) MTBE Metals
5.58	1317	25	5219	58,5	6,52	Purging Method: DISP. basher
						PVC bailer / Pump
		S: color, turl	oidity, recharg	ge, sheen	'na ober	Sampling Method:
	gray 1	maditorb,	lunadit B &	jood nech.	no stoen	Dedicated Disposable bailer
WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	рН	Sample at: 1320
MW-3						Sample for: TPH into
Calc. purge	1330	22	1688	61.7	6.56	TPHg TPHd 8260
volume	1335	24	1662	60,0	6.54	BTEX MTBE Metals
6,06		26	1655	59,5	6.58	Purging Method: Disp. builer
						PVC bailer / Pump
	COMMENT	S: color, turl		ge, sheen))c4	Sampling Method:
	char to	gray no s	hach mod	rech. I w	nd, Turb	Dedicated Disposable bailer
		1	,			Sample at: 1345

PURGING DATA

SHEET Z OF Z

Job No.: <i>NC</i> -	. 1	Location: /a	220 5	TH St Amo	Date: 4	1-19-05 Tech: J. L.
WELL	TIME	VOLUME (gal.)	COND.	TEMP. (deg. F.)	рН	
No. MW-4		(gai.)		:		Sample for:
Calc. purge	1410	2 1 301.	1436	59,7	650	TPHg (TPH) 8260 BTEX MTBE Metals
volume 5.07		25 gal.	136	58.3	6:76	Purging Method: disposar Com
						PVC bailer / Pump Sampling Method:
	COMMEN'	TS: color, turb	idity, recharg Mud Thr	ge, sheen	at sien	
WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP.	pН	M 20
110.						Sample for: TPHg TPHd 8260
Calc. purge						TPHg TPHd 8260 BTEX MTBE Metals
volume						Purging Method:
						PVC bailer / Pump Sampling Method:
	COMME	NTS: color, tu	rbidity, recha	rge, sheen		Dedicated / Disposable bailer
WELL	TIME	VOLUMI (gal.)	E COND.			Sample at:
No.		(gai.)				Sample for:
Calc. purge				_		TPHg TPHd 8260 BTEX MTBE Metals
volume						Purging Method:
	-					PVC bailer / Pump
	COMM	ENTS: color,	turbidity, rec	harge, sheen		Sampling Method: Dedicated / Disposable bailer
						Sample at:



Date: 4/29/2005

Scott Ferriman Blue Rock Environmental, Inc. 535 3rd Street, Suite 100 Eureka, CA 95501

Subject: 4 Water Samples

Project Name: Former Beaver Lumber

Project Number: NC-1

Dear Mr. Ferriman,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Date: 4/29/2005

Subject: 4 Water Samples
Project Name: Former Beaver Lumber

Project Number: NC-1

Case Narrative

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for sample MW-1. These hydrocarbons are higher boiling than typical diesel fuel.

Approved By:

Jde Kiff



Date: 4/29/2005

Project Name : Former Beaver Lumber

Project Number: NC-1

Sample: MW-1 Matrix: Water Lab Number: 43316-01

Sample Date :4/19/2005

Sample Date :4/19/2005		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Toluene - d8 (Surr)	93.0		% Recovery	EPA 8260B	4/21/2005
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	4/21/2005
TPH as Diesel (w/ Silica Gel)	73	50	ug/L	M EPA 8015	4/28/2005
TPH as Motor Oil (w/ Silica Gel)	390	100	ug/L	M EPA 8015	4/28/2005

Sample: MW-2 Matrix: Water Lab Number : 43316-02

Sample Date :4/19/2005

Cample Bate :4/10/2000		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Toluene - d8 (Surr)	93.8		% Recovery	EPA 8260B	4/21/2005
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	4/21/2005
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	4/28/2005
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	4/28/2005



Date: 4/29/2005

Project Name: Former Beaver Lumber

Project Number: NC-1

Sample: MW-3 Matrix: Water Lab Number: 43316-03

Sample Date :4/19/2005

Sample Date :4/19/2005		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Toluene - d8 (Surr)	93.0		% Recovery	EPA 8260B	4/21/2005
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	4/21/2005
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	4/28/2005
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	4/28/2005

Sample: MW-4 Matrix: Water Lab Number: 43316-04

Sample Date :4/19/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/21/2005
Toluene - d8 (Surr)	93.7		% Recovery	EPA 8260B	4/21/2005
4-Bromofluorobenzene (Surr)	99.4		% Recovery	EPA 8260B	4/21/2005
TPH as Diesel (w/ Silica Gel)	< 50	50	ug/L	M EPA 8015	4/28/2005
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ug/L	M EPA 8015	4/28/2005

Approved By:

del Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Date: 4/29/2005

Date Analyzed

Analysis Method

Method Reporting Limit Units

Measured Value

QC Report: Method Blank Data

Project Name: Former Beaver Lumber

Project Number: NC-1

		Method				
	Measured Reporting	Reporting	0	Analysis	Date	
Parameter	Value	Limit	Units	Method	Analyzed	Parameter
TPH as Diesel (w/ Silica Gel)	< 50	20	ng/L	M EPA 8015 4/28/2005	4/28/2005	
TPH as Motor Oil (w/ Silica Gel)	< 100	100	ng/L	M EPA 8015 4/28/2005	4/28/2005	
Benzene	< 0.50	0.50	ng/L	EPA 8260B	4/20/2005	
Toluene	< 0.50	0.50	ng/L	EPA 8260B	4/20/2005	
Ethylbenzene	< 0.50	0.50	ng/L	EPA 8260B	4/20/2005	
Total Xylenes	< 0.50	0.50	ng/L	EPA 8260B	4/20/2005	
Toluene - d8 (Surr)	95.5		%	EPA 8260B	4/20/2005	
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	4/20/2005	

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

QC Report: Matrix Spike/ Matrix Spike Duplicate

Report Number: 43316

Date: 4/29/2005

Project Name: Former Beaver Lumber

Project Number: NC-1

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Spikec Sampl Date Percer Analyzed Recov	Spiked Sample Percent Recov.	Duplica Spiked Sample Percent Recov.	e Relative Percent Diff.	te Spiked Sample Relative Percent Percent Recov. Diff. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	1120	1170	ng/L	M EPA 8015 4/28/05	4/28/05	112	117	4.29	70-130	25
Benzene	43314-02	<0.50	40.0	40.0	38.9	38.5	ng/L	EPA 8260B	4/20/05	97.2	96.2	1.07	70-130	25
Toluene	43314-02	<0.50	40.0	40.0	41.1	40.2	ng/L	EPA 8260B	4/20/05	103	100	2.22	70-130	25

Approved By: Joe Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Report Number: 43316

Date: 4/29/2005

Project Name: Former Beaver Lumber

Project Number: NC-1

LCS Percent Recov. Limit	70-130	70-130
LCS Percent Recov.	9.96	101
Date Analyzed	4/20/05	4/20/05
Analysis Method	EPA 8260B	EPA 8260B
Units	ng/L	ng/L
Spike Level	40.0	40.0
Parameter	Benzene	Toluene

John Kiff

Approved By:

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

8 S Z For Lab Use Only 9 8 Chain-of-Custody Record and Analysis Request SAMPLES ALPUNED WA FEBRY ON WET TAT 12 hr/24 hr/48 hr/72 hr/1 wk ICE, TEMPERAMES WERE SII'C MA TR-1 KILEX 7536 TOTAL (X) W.E.T. (X) (S.952\r247) bse-Volatile Halocarbons (EPA 8260B) (Full List) 8260B (Full List) કું Analysis Request Lead Scav. (1,2 DCA & 1,2 EDB - 8260B) Lab No. (8260B) Oxygenates 5 Oxygenates (8260B) Oxygenates/TPH Gas/BTEX (8260B) 5 Oxygenates/TPH Gas/BTEX (8260B) Remarks: Bill to: TPH Gas/BTEX/MTBE (8260B) TPH as Motor Oil (M8015) איונת אפן כן TPH as Diesel (M8015) Silica gel clean-up BTEX/TPH Gas/MTBE (8021B/M8015) Received by Laboratory; Mark (81208) X3T8 California EDF Report? 💢 😘 🗆 🕦 Global ID: 7.0.6.0.2.3.9.3.1.0.9 Recommended but not mandatory to complete this section: Sampling Company Log Code: Matrix SOIL **MATER** EDF Deliverable To (Email Address): Scotl @ blue rockeny. Preservative NONE ICE 2795 2nd Street, Suite 300 HNO3 Received by: Received by: HCI × Sample#Signature: Lab: 530.297.4800 Fax: 530.297.4808 Yarno. Davis, CA 95616 Container Time Time Time 4-19-05 1800 <u>B</u> SLEEVE AOV Im 04 9 00til 50/61/th Oftool Date 1320 1345 Time 535 Third St. Ste. 100 Eurella, CA Phone No.: FAX No.: Company/Address: Blut Rock Env. INC. Sampling 6h61 -1hh (LCL) 22501 Project Contact (Hardcopy or PDF To): ANALYTICAL LLC P.O. No: cost Ferriman Former Beaver Sample Designation 1220 FIXIN St. 4561 - 14h (LOL) Arcata, CA NW-4 MW-3 7-M4 Project Address: Project Number: Relinquished by: JW-Relinquished by: Relinquished by: Project Name:

Forms/coc 121001.fh9

Distribution: White - Lab, Pink - Originator